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Radiosensitizers for Cancer Radiation Therapy

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Radiotherapy is one of the most effective techniques used to fight cancer and one of the most chosen options. It uses high doses of ionizing radiation to damage cancer cells. However, some cancer types are radioresistant. In this context, radiosensitizers may play a crucial role to improve therapeutic outcomes. G-quadruplex DNA ligands have emerged as good candidates. The aim of the thesis is to evaluate the ability of a small family of G4-DNA ligands to act as radiosensitizers, by studying the effects induced by gamma-radiation in prostate cancer cells. All in all, the study should unravel the benefit of combining radiation treatment with G4-DNA ligands.

Author: CARDOSO, Sofia

Presenter: CARDOSO, Sofia